

DEC 5 2006

TECH CENTER 1600/2900

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cont

terminates at its 3' end at the polymorphic locus, wherein the first primer comprises a 3' portion which is complementary to the region of DNA and a 5' portion which is identical in sequence to all or part of a probe on a solid support and not complementary to the region of DNA, to form a first strand and a second strand, wherein the first strand comprises a portion identical to all or part of the probe and the second strand comprises a 5' portion complementary to all or part of the probe;

labeling the amplified DNA products to form labeled amplified DNA products;

hybridizing the labeled, amplified DNA products to the probe on the solid support such that the second strand hybridizes to the probe on the solid support; and

detecting labeled, amplified DNA products hybridized to the probe on the solid support, wherein the presence of said labeled amplified DNA products on the solid support indicates that the nucleic acid sample contains at the polymorphic locus a nucleotide which is the same as the 3' terminal nucleotide of the primer.

23. (Amended) A method to prepare samples for analysis to determine a nucleotide at a polymorphic locus in a nucleic acid sample, comparing the steps of:

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amplifying a region of DNA comprising a polymorphic locus in the sample to form amplified DNA products using a primer [which] pair, wherein a first primer of the pair terminates at its 3' end at the polymorphic locus, wherein the first primer comprises a 3' portion which is complementary to the region of DNA and a 5' portion which is identical in sequence to all or part of a probe on a solid support and not complementary to the region of DNA to form a first strand comprising a portion identical to all or part of the probe and a second strand which comprises a 5' portion complementary to all or part of the probe;

labeling the amplified DNA products to form labeled amplified DNA products; and